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SABRE-North Experiment for Dark Matter detection

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The SABRE experiment aims to detect dark matter by improving upon DAMA/LIBRA's annual modulation signal using ultra-pure NaI(TI) crystals to reduce the background noise from contamination such as 40K, 238U, 232Th through advanced zone-refining techniques and high-purity crystal production. With detectors in both hemispheres, SABRE can distinguish dark matter signals from seasonal effects, enhancing its sensitivity to WIMPs.

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Session Classification: Poster Session